

that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This Information Disclosure Statement should not be construed as a representation that information more material to the examination of this application does not exist.

5. This Information Disclosure Statement is being filed before the mailing date of a final action under 37 C.F.R. § 1.113, or a Notice of Allowance under 37 C.F.R. § 1.311 (where there has been no prior final action), or an action that otherwise closes prosecution in the application. A fee is due pursuant to 37 C.F.R. §1.97(c)(2). In this event, kindly charge the fee of \$ 180.00, 37 C.F.R. §1.17(p), to Deposit Account 23-2405, Order No. 114596-07-4014.

6. The Commissioner is hereby authorized to charge any additional fees that may be required for this Information Disclosure Statement, or credit any overpayment, to Deposit Account No. 23-2405, Order No. 114596-07-4014.

Respectfully submitted,

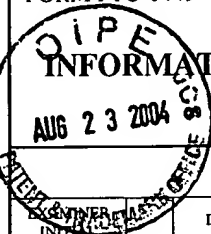
WILLKIE FARR & GALLAGHER LLP

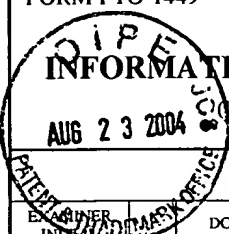
Dated: August 20, 2004

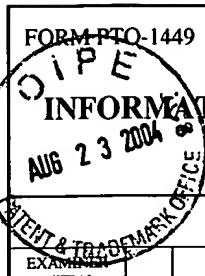
By: 

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| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-07-4014 | | SERIAL NO. 09/386,852 | |
|  (Use several sheets if necessary) | | | | APPLICANT David L. Reese, et al. | | RECEIVED AUG 27 2004 Technology Center 2100 | |
| | | | | FILING DATE June 11, 1999 | | | |
| | | | | | | GROUP ART UNIT 2124 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | | 3,544,969 | 12/01/1970 | Rakoczi | 340 | 172.5 | Nov. 27, 1967 |
| | | 3,781,823 | 12/25/1973 | Senese | 340 | 172.5 | July 28, 1972 |
| | | 4,084,235 | 04/11/1978 | Hirtle | 364 | 200 | Apr. 14, 1975 |
| | | 4,412,303 | 10/25/1983 | Barnes | 712 | 16 | Oct. 25, 1983 |
| | | 4,455,602 | 06/19/1984 | Baxter | 364 | 200 | May 22, 1981 |
| | | 4,514,803 | 04/30/1985 | Agnew | 364 | 200 | Apr. 26 1982 |
| | | 4,575,797 | 03/11/1986 | Gruner | 364 | 200 | May 22, 1981 |
| | | 4,636,940 | 01/1987 | Goodwin | 717 | 128 | Dec. 20, 1985 |
| | | 4,750,112 | 06/07/1988 | Jones | 364 | 200 | Feb. 10, 1984 |
| | | 4,779,187 | 10/18/1988 | Letwin | 712 | 229 | Apr. 10, 1985 |
| | | 4,812,975 | 03/14/1989 | Adachi | 364 | 300 | Jul. 11, 1984 |
| | | 5,043,878 | 08/1991 | Ooi | 712 | 42 | |
| | | 5,115,500 | 05/19/1992 | Larsen | 711 | 202 | Jan. 11, 1988 |
| | | 5,127,092 | 06/30/1992 | Gupta | 712 | 234 | Jun. 15, 1989 |
| | | 5,155,835 | 10/13/1992 | Belsan | 711 | 114 | Nov. 19, 1990 |
| | | 5,168,557 | 12/01/1992 | Shibuya | 712 | 207 | Sep. 21, 1989 |
| | | 5,241,664 | 08/31/1993 | Ohba | 711 | 121 | Jan. 7, 1991 |
| | | 5,241,638 | 08/31/1993 | Mork | 711 | 207 | Aug. 12, 1995 |
| | | 5,301,287 | 04/05/1994 | Herrell | 711 | 202 | Feb. 16, 1993 |
| | | 5,307,504 | 04/26/1994 | Robinson | 395 | 800 | Mar. 7, 1991 |
| | | 5,335,331 | 08/02/1994 | Murao | 712 | 203 | Jul. 12, 1991 |
| | | 5,339,422 | 8/16/1994 | Brender | 714 | 4 | Mar. 7, 1991 |
| | | 5,355,487 | 11/11/1994 | Keller | 717 | 127 | Jul. 23, 1993 |
| | | 5,361,340 | 11/01/1994 | Kelly | 711 | 3 | Mar. 9, 1993 |
| | | 5,386,563 | 01/31/1995 | Thomas | 712 | 228 | Oct. 13, 1992 |
| | | 5,404,476 | 04/04/1995 | Kadaira | 711 | 207 | Mar. 9, 1993 |
| | | 5,432,795 | 07/11/1995 | Robinson | 371 | 19 | May 15, 1991 |
| | | 5,454,117 | 09/26/1995 | Puziol | 395 | 800 | Aug. 25, 1993 |
| | | 5,479,616 | 12/26/1995 | Garibay | 712 | 212 | Apr. 3, 1992 |
| | | 5,481,684 | 01/02/1996 | Richter | 712 | 212 | Jul. 20 1994 |
| | | 5,481,693 | 01/02/1996 | Blomgren | 712 | 225 | Jul. 20, 1994 |
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| EXAMINER | | | | DATE CONSIDERED | | | |

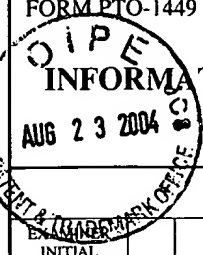
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| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-07-4014 | | SERIAL NO. 09/330852 | |
|  <p>INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)</p> | | | | APPLICANT David L. Reese, et al. | | <p>RECEIVED AUG 27 2004 Technology Center 2100</p> | |
| | | | | FILING DATE June 11, 1999 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INTERVIEW | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| | 5,487,156 | 01/23/1996 | Popsescu | 712 | 217 | Dec. 5, 1990 | |
| | 5,507,028 | 04/09/1996 | Liu | 395 | 375 | Jan. 9, 1995 | |
| | 5,515,518 | 06/07/1996 | Stiles | 395 | 375 | Jul. 5, 1994 | |
| | 5,542,059 | 07/30/1996 | Blomgren | 395 | 375 | Dec. 21, 1994 | |
| | 5,542,109 | 07/30/1996 | Blomgren | 395 | 800 | Aug. 31, 1994 | |
| | 5,560,013 | 09/24/1996 | Scalzi | 717 | 138 | Dec. 6, 1994 | |
| | 5,568,646 | 10/22/1996 | Jagggar | 712 | 209 | Sep. 19, 1994 | |
| | 5,574,927 | 11/12/1996 | Scantlin | 395 | 800 | Nov. 12, 1996 | |
| | 5,574,929 | 11/12/1996 | Pieterse | 712 | 30 | Jun. 30, 1994 | |
| | 5,590,309 | 12/31/1996 | Chencinski | 395 | 472 | Apr. 1, 1994 | |
| | 5,598,546 | 01/28/1997 | Blomgren | 712 | 209 | Aug. 31, 1994 | |
| | 5,608,886 | 03/04/1997 | Blomgren | 395 | 586 | Aug. 31, 1994 | |
| | 5,613,114 | 3/1997 | Anderson | 718 | 108 | | |
| | 5,613,118 | 03/18/1997 | Heisch | 395 | 709 | Jun. 20, 1994 | |
| | 5,619,666 | 04/08/1997 | Coon | 712 | 209 | Jun. 2, 1995 | |
| | 5,625,835 | 4/1997 | Ebcioğlu | 712 | 23 | | |
| | 5,628,016 | 05/06/1997 | Kukol | 717 | 140 | June 15, 1994 | |
| | 5,636,366 | 06/03/1997 | Robinson | 395 | 490 | Oct. 30, 1995 | |
| | 5,638,525 | 06/10/1997 | Hammond | 395 | 385 | Feb. 10, 1995 | |
| | 5,652,869 | 07/29/1997 | Herdeg | 703 | 23 | Dec. 28, 1994 | |
| | 5,657,474 | 08/12/1997 | Taine | 711 | 163 | Nov. 20, 1995 | |
| | 5,659,679 | 08/19/1997 | Alpert | 395 | 183.1 | May 30, 1995 | |
| | 5,659,782 | 08/19/1997 | Senter | 712 | 23 | Sep. 16, 1994 | |
| | 5,664,159 | 09/02/1997 | Richter | 395 | 500 | May 8, 1995 | |
| | 5,673,407 | 09/30/1997 | Poland | 395 | 375 | Mar. 8, 1994 | |
| | 5,678,032 | 10/14/1997 | Woods | 395 | 500 | Sept. 6, 1995 | |
| | 5,685,009 | 11/04/1997 | Blomgren | 395 | 800 | Nov. 29, 1995 | |
| | 5,715,421 | 02/03/1998 | Akiyama | 711 | 213 | Oct. 16, 1992 | |
| | 5,721,927 | 02/24/1998 | Baraz | 395 | 705 | Aug. 7, 1996 | |
| | 5,732,238 | 03/24/1998 | Sarkozy | 711 | 135 | Jun. 12, 1996 | |
| | 5,742,780 | 04/21/1988 | Caulk | 395 | 382 | Jan. 16, 1997 | |
| EXAMINER | | | DATE CONSIDERED | | | | |

| | | | | | | | |
|--|-----------------|--|------------------------|------------------------------------|----------|---|--|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-07-4014 | | SERIAL NO. 09/330,852 | |
|  | | INFORMATION DISCLOSURE CITATION | | | | RECEIVED AUG 27 2004 Technology Center 2100 | |
| | | (Use several sheets if necessary) | | | | | |
| | | APPLICANT David L. Reese, et al. | | FILING DATE June 11, 1999 | | GROUP ART UNIT 2124 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| | 5,751,982 | 05/12/1998 | Morley | 395 | 800 | Mar. 31, 1995 | |
| | 5,754,878 | 05/19/1998 | Asghar | 395 | 800 | Mar. 18, 1996 | |
| | 5,764,947 | 06/09/1998 | Murphy | 703 | 20 | Mar. 2, 1994 | |
| | 5,774,287 | 06/30/1998 | Leonhardt | 710 | 33 | Dec. 9, 1994 | |
| | 5,774,686 | 06/30/1998 | Hammond | 395 | 385 | Jun. 7, 1995 | |
| | 5,781,750 | 07/14/1998 | Blomgren | 395 | 500 | Jan 11, 1994 | |
| | 5,781,758 | 07/14/1998 | Morley | 395 | 500 | Mar. 23, 1995 | |
| | 5,781,792 | 07/14/1998 | Asghar | 395 | 800.35 | Mar. 18, 1996 | |
| | 5,784,640 | 07/21/1998 | Asghar | 395 | 800.35 | Mar. 18, 1996 | |
| | 5,790,824 | 08/04/1998 | Asghar | 395 | 385 | Mar. 18, 1996 | |
| | 5,794,068 | 08/11/1998 | Asghar | 395 | 800.35 | Mar. 18, 1996 | |
| | 5,796,939 | 08/18/1998 | Berc | 395 | 184.01 | Mar. 10, 1997 | |
| | 5,802,272 | 09/01/1998 | Sites | 395 | 183.21 | Dec. 19, 1994 | |
| | 5,802,337 | 09/01/1998 | Fielden | 712 | 216 | Dec. 29, 1995 | |
| | 5,802,373 | 09/01/1998 | Yates | 717 | 139 | Jan. 29, 1996 | |
| | 5,805,877 | 09/08/1998 | Black | 395 | 586 | Sep. 23, 1996 | |
| | 5,812,864 | 09/22/1998 | McCoy | 703 | 26 | Dec. 6, 1995 | |
| | 5,815,720 | 9/29/1998 | Buzbee | 717 | 158 | Mar. 15, 1996 | |
| | 5,819,064 | 10/06/1998 | Razdan | 703 | 27 | Nov. 8, 1995 | |
| | 5,822,578 | 10/13/1998 | Frank | 395 | 591 | June 5, 1995 | |
| | 5,832,205 | 11/03/1998 | Kelly | 395 | 185.06 | Aug. 20, 1996 | |
| | 5,838,962 | 11/17/1998 | Larson | 395 | 586 | Apr. 9, 1997 | |
| | 5,838,978 | 11/17/1998 | Buzbee | 395 | 705 | Oct. 9, 1996 | |
| | 5,842,017 | 11/24/1998 | Hookway | 395 | 707 | Jan. 29, 1996 | |
| | 5,847,955 | 12/08/1998 | Mitchell | 700 | 86 | Jun. 23, 1997 | |
| | 5,854,913 | 12/29/1998 | Goetz | 712 | 210 | Jun. 10, 1997 | |
| | 5,864,697 | 01/26/1999 | Shiell | 712 | 240 | Jun. 27, 1997 | |
| | 5,870,763 | 02/09/1999 | Lomet | 707 | 202 | Mar. 10, 1997 | |
| | 5,884,057 | 03/16/1999 | Blomgren | 395 | 375 | May 8, 1995 | |
| | 5,901,308 | 05/04/1999 | Cohn | 712 | 244 | Mar. 18, 1996 | |
| | 5,903,750 | 05/11/1999 | Yeh | 712 | 236 | Nov. 20, 1996 | |
| EXAMINER | | | DATE CONSIDERED | | | | |

| | | | | | | | |
|--|--|--|------------|-------------------------------------|-------|--------------------------|-------------------------------|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-07-4014 | | SERIAL NO. 09/330,852 | |
|  | | INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | APPLICANT David L. Reese, et al. | | AUG 27 2004 | |
| | | | | FILING DATE June 11, 1999 | | GROUP ART 2124 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| | | 5,903,751 | 05/11/1999 | Hoyt | 395 | 585 | Sep. 16, 1997 |
| | | 5,903,760 | 05/11/1999 | Farber | 395 | 707 | Jun. 27, 1996 |
| | | 5,905,855 | 05/18/1999 | Klaiber | 395 | 183.07 | Feb. 28, 1997 |
| | | 5,911,073 | 06/08/1999 | Mattson | 395 | 701 | Dec. 23, 1997 |
| | | 5,920,721 | 07/06/1999 | Hunter | 395 | 705 | Jun. 11, 1997 |
| | | 5,930,509 | 07/27/1999 | Yates | 395 | 707 | Jan. 29, 1996 |
| | | 5,935,220 | 08/10/1999 | Lumpkin | 710 | 5 | Aug. 9, 1996 |
| | | 5,941,827 | 02/1996 | Holtey | 711 | 163 | Jan. 14, 1994 |
| | | 5,949,415 | 09/07/1999 | Lin | 345 | 335 | Jun. 16, 1997 |
| | | 5,958,047 | 09/28/1999 | Panwar | 712 | 237 | Jun. 25, 1997 |
| | | 5,958,061 | 09/28/1999 | Kelly | 714 | 1 | Jul. 24, 1996 |
| | | 5,966,537 | 10/1999 | Ravichandran | 717 | 158 | |
| | | 5,968,162 | 10/19/1999 | Yard | 712 | 203 | Apr. 2, 1996 |
| | | 5,983,335 | 11/09/1999 | Dwyer | 712 | 23 | Apr. 30, 1997 |
| | | 5,999,736 | 12/07/1999 | Gupta | 717 | 158 | May 9, 1997 |
| | | 6,000,028 | 12/07/1999 | Chernoff | 712 | 226 | Jan. 29, 1996 |
| | | 6,002,872 | 12/14/1999 | Alexander | 717 | 127 | Mar. 31, 1998 |
| | | 6,003,038 | 12/14/1999 | Chen | 707 | 103R | March 31, 1997 |
| | | 6,005,551 | 12/21/1999 | Osborne | 345 | 161 | Apr. 25, 1997 |
| | | 6,006,029 | 12/21/1999 | Bianchi | 395 | 500.45 | Sept. 28, 1993 |
| | | 6,006,277 | 12/21/1999 | Talati | 709 | 313 | Jan. 26, 1996 |
| | | 6,011,908 | 01/04/2000 | Wing | 395 | 182.17 | Dec. 23, 1996 |
| | | 6,014,735 | 01/11/2000 | Chennupaty | 712 | 210 | Mar. 31, 1998 |
| | | 6,021,265 | 02/01/2000 | Nevill | 712 | 209 | Apr. 14, 1997 |
| | | 6,021,484 | 02/01/2000 | Park | 712 | 41 | Nov. 14, 1997 |
| | | 6,021,489 | 02/01/2000 | Poplingher | 712 | 239 | Jun. 30, 1997 |
| | | 6,026,478 | 02/15/2000 | Dowling | 712 | 24 | Dec. 23, 1997 |
| | | 6,029,004 | 02/22/2000 | Bortnikov | 717 | 158 | Mar. 17, 1997 |
| | | 6,029,222 | 02/22/2000 | Kamiya | 710 | 262 | Jan. 10, 1997 |
| | | 6,031,992 | 02/29/2000 | Cmelik | 395 | 705 | Jul. 5, 1996 |
| | | 6,032,247 | 02/29/2000 | Asghar | 712 | 35 | Nov. 14, 1997 |
| EXAMINER | | | | DATE CONSIDERED | | | |

| | | | | | | | |
|---|-----------------|--|------------------------|-------------------------------------|----------|---|--|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-07-4014 | | SERIAL NO. 09/330,851 | |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | APPLICANT David L. Reese, et al. | | AUG 27 2004 | |
| | | | | FILING DATE June 11, 1999 | | GROUP ART UNIT 2124 Technology Center 2100 | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| | 6,035,393 | 03/07/2000 | Glew | 712 | 237 | May 7, 1998 | |
| | 6,044,220 | 03/28/2000 | Breternitz | 717 | 139 | Feb. 25, 1997 | |
| | 6,044,221 | 03/28/2000 | Gupta | 717 | 151 | May 9, 1997 | |
| | 6,047,363 | 04/2000 | Lewchuk | 711 | 213 | Oct. 14, 1997 | |
| | 6,047,390 | 04/2000 | Butt | 714 | 43 | | |
| | 6,052,771 | 4/18/2000 | Heller | 712 | 34 | Jan. 20, 1998 | |
| | 6,061,711 | 05/2000 | Song | 718 | 108 | | |
| | 6,070,009 | 05/30/2000 | Dean | 717 | 130 | Nov. 26, 1997 | |
| | 6,071,317 | 06/2000 | Nagel | 717 | 128 | | |
| | 6,076,144 | 6/13/2000 | Peled | 711 | 125 | Dec. 1, 1997 | |
| | 6,081,665 | 06/27/2000 | Nilsen | 717 | 116 | Dec. 19, 1997 | |
| | 6,081,890 | 06/27/2000 | Datta | 713 | 1 | Nov. 30, 1998 | |
| | Re. 36,766 | 07/04/2000 | Krauskopf | 711 | 203 | Aug. 21, 1992 | |
| | 6,091,897 | 07/18/2000 | Yates | 395 | 708 | Jan. 29, 1996 | |
| | 6,092,188 | 07/18/2000 | Corwin | 712 | 239 | Jul. 7, 1999 | |
| | 6,115,809 | 09/05/2000 | Mattson | 712 | 239 | Apr. 30, 1998 | |
| | 6,119,204 | 9/12/2000 | Chang | 711 | 141 | Jun. 30, 1998 | |
| | 6,119,218 | 9/2000 | Arora | 712 | 207 | | |
| | 6,141,683 | 10/31/2000 | Kraml | 709 | 220 | Jan. 30, 1998 | |
| | 6,154,857 | 11/28/2000 | Mann | 714 | 30 | Dec. 17, 1997 | |
| | 6,157,970 | 12/05/2000 | Gafken | 710 | 27 | Sep. 24, 1997 | |
| | 6,163,764 | 12/19/2000 | Dulong | 717 | 138 | Oct. 12, 1998 | |
| | 6,175,957 | 01/16/2001 | Ju | 717 | 156 | Dec. 9, 1997 | |
| | 6,195,748 | 02/27/2001 | Chrysos | 712 | 227 | Nov. 26, 1997 | |
| | 6,202,205 | 03/13/2001 | Saboff | 717 | 9 | Jul. 21, 1998 | |
| | 6,205,545 | 03/20/2001 | Shah | 712 | 237 | Apr. 30, 1998 | |
| | 6,212,493 | 04/03/2001 | Huggins | 703 | 22 | Dec. 1, 1998 | |
| | 6,219,774 | 04/17/2001 | Hammond | 711 | 202 | Mar. 25, 1998 | |
| | 6,226,789 | 05/01/2001 | Tye | 717 | 138 | Jan. 29, 1996 | |
| | 6,233,678 | 05/15/2001 | Bala | 712 | 240 | Nov. 5, 1998 | |
| | 6,237,073 | 05/22/2001 | Dean | 711 | 202 | Nov. 26, 1997 | |
| EXAMINER | | | DATE CONSIDERED | | | | |

| | | | | | | | |
|--|-----------------|--|------------------------|---|----------|-------------------------------|--|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-07-4014 | | SERIAL NO. 09/330,853 | |
|  INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | APPLICANT David L. Reese, et al. | | | | AUG 27 2004 | |
| | | FILING DATE June 11, 1999 | | GROUP ART UNIT 2124 Technology Center 2100 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| | 6,237,074 | 05/22/2001 | Phillips | 711 | 213 | May 26, 1995 | |
| | 6,240,526 | 05/29/2001 | Petivan | 714 | 11 | Oct. 27, 1999 | |
| | 6,243,804 | 06/05/2001 | Cheng | 712 | 228 | Jul. 22, 1998 | |
| | 6,253,215 | 06/26/2001 | Agesen | 707 | 206 | Aug. 17, 1998 | |
| | 6,256,728 | 07/03/2001 | Witt | 712 | 236 | Jul. 6, 1998 | |
| | 6,260,191 | 07/10/2001 | Santhanam | 717 | 9 | Apr. 7, 1997 | |
| | 6,289,445 | 09/2001 | Ekner | 712 | 244 | | |
| | 6,295,644 | 09/25/2001 | Hsu | 717 | 9 | Aug. 17, 1999 | |
| | 6,304,948 | 10/16/2001 | Motoyama | 711 | 162 | Oct. 6, 1998 | |
| | 6,308,318 | 10/23/2001 | Krishnaswamy | 717 | 139 | Oct. 7, 1998 | |
| | 6,308,321 | 10/23/2001 | Schooler | 717 | 132 | Dec. 11, 1998 | |
| | 6,336,135 | 01/01/2002 | Niblett | 709 | 215 | Nov. 19, 1998 | |
| | 6,351,784 | 02/26/2002 | Neal | 710 | 308 | Dec. 28, 1998 | |
| | 6,351,844 | 2/26/2002 | Bala | 717 | 128 | Nov. 5, 1998 | |
| | 6,353,924 | 03/05/2002 | Ayers | 717 | 128 | Feb. 8, 1999 | |
| | 6,363,336 | 03/26/2002 | Banning | 703 | 26 | Oct. 13, 1999 | |
| | 6,374,367 | 03/26/2002 | Dean | 714 | 37 | Nov. 26, 1997 | |
| | 6,374,369 | 04/16/2002 | O'Donnell | 714 | 38 | May 21, 1999 | |
| | 6,381,628 | 04/30/2002 | Hunt | 709 | 201 | Nov. 20, 1998 | |
| | 6,381,735 | 04/30/2002 | Hunt | 717 | 158 | Nov. 20, 1998 | |
| | 6,397,379 | 05/28/2002 | Yates | 717 | 140 | Oct. 28, 1999 | |
| | 6,405,327 | 06/11/2002 | Sipple | 714 | 39 | Aug. 19, 1998 | |
| | 6,453,292 | 09/17/2002 | Ramaswamy | 704 | 235 | Oct. 28, 1998 | |
| | 6,463,582 | 10/08/2002 | Lethin | 717 | 158 | Oct. 21, 1998 | |
| | 6,470,442 | 10/22/2002 | Arimilli | 712 | 32 | Jul. 30, 1999 | |
| | 6,470,492 | 10/22/2002 | Bala | 717 | 128 | May 14, 1999 | |
| | 6,473,846 | 10/29/2002 | Melchior | 711 | 170 | Jun. 16, 2000 | |
| | 6,477,683 | 11/05/2002 | Killian | 716 | 1 | Feb. 5, 1999 | |
| | 6,480,862 | 11/12/2002 | Gall | 707 | 3 | Apr. 23, 1999 | |
| | 6,481,007 | 11/2002 | Iyer | 717 | 151 | | |
| | 6,496,922 | 12/17/2002 | Borrill | 712 | 209 | Oct. 31, 1994 | |
| EXAMINER | | | DATE CONSIDERED | | | | |

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|--|--|--|--|------------------------------|-------------------------------------|---|---|--|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | | ATTY. DOCKET NO. 114596-07-4014 | | SERIAL NO. 09/330,852 | |
|  | | INFORMATION DISCLOSURE CITATION | | | AUG 27 2004 | | | |
| | | (Use several sheets if necessary) | | | APPLICANT David L. Reese, et al. | | GROUP ART UNIT 2124 Technology Center 2100 | |
| | | FILING DATE June 11, 1999 | | FILING DATE June 11, 1999 | | GROUP ART UNIT 2124 Technology Center 2100 | | |

| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|-----------------|------------|----------|-------|----------|-------------------------------|--|
| INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
| | 6,496,923 | 12/17/2002 | Gruner | 712 | 213 | Dec. 17, 1999 | |
| | 6,549,930 | 04/15/2003 | Chrysos | 709 | 104 | Nov. 26, 1997 | |
| | 6,557,094 | 04/29/2003 | Pechanek | 712 | 209 | Sep. 28, 2001 | |
| | 6,560,693 | 05/06/2003 | Puzak | 712 | 207 | Dec. 10, 1999 | |
| | 6,571,331 | 05/27/2003 | Henry | 712 | 239 | Apr. 3, 2001 | |
| | 6,591,414 | 07/08/2003 | Hibi | 717 | 151 | Oct. 3, 1997 | |
| | 6,631,514 | 10/07/2003 | Le | 717 | 137 | | |
| | 6,678,820 | 01/2004 | Kahle | 712 | 239 | Mar. 30, 2000 | |
| | | | | | | | |
| | | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|---------------------|------------|---------|-------|----------|-------------|----|
| INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | | | | | | YES | NO |
| | EP 0 324 308 Larsen | 07/19/1989 | EPO | G06F | 9/30 | | |
| | WO 96/24895 Hammond | 08/15/1996 | PCT/US | G06F | 9/22 | | |
| | WO 97/50031 Farber | 12/31/1997 | PCT/US | G06F | 9/455 | | |
| | WO 98/13740 Wing | 04/02/1998 | PCT/US | G06F | | | |
| | WO 98/28689 Wing | 07/02/1998 | PCT/US | G06F | 11/00 | | |
| | WO 98/38575 Klaiber | 09/03/1998 | PCT/US | G06F | 11/00 | | |
| | WO 98/59292 Cmelik | 12/30/1998 | PCT/US | G06F | 9/45 | | |
| | WO 99/03037 Kelly | 01/21/1999 | PCT/US | G06F | 11/00 | | |
| | WO 99/08188 Kelly | 02/18/1999 | PCT/US | G06F | 11/00 | | |
| | WO 99/08191 Kelly | 02/18/1999 | PCT/US | G06F | 12/00 | | |
| | | | | | | | |
| | | | | | | | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.) | | |
|---|--|--|
| | | Ammons, Ball and Larus: Exploiting Hardware Performance Counters with Flow and Context Sensitive Profiling, Proceedings of the ACM SIGPLAN 1997 Conference on Programming Language Design and Implementation, pp. 85-96 (1997) |
| | | Burroughs, Preliminary Edition, B 1700 Systems Reference Manual, Burroughs Corporation (1972) |
| | | Burroughs, B 1700 Systems Micro Implementation Language (MIL) Reference Manual, Burroughs Corporation (1973) |

| | |
|-----------------|------------------------|
| EXAMINER | DATE CONSIDERED |
|-----------------|------------------------|

| | | | | |
|--|--|------------------------------------|--------------------------|-----------------|
| FORM PTO-1449 | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DOCKET NO. 114596-07-4014 | SERIAL NO. 09/330,852 | RECEIVED |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | APPLICANT David L. Reese, et al. | AUG 27 2004 | | |
| | FILING DATE June 11, 1999 | GROUP ART UNIT 2124 | Technology Center 2100 | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.) | | | | |
| | Brad Calder, Peter Feller, Alan Eustace, Value Profiling, Proceedings of 30th International Symposium on Microarchitecture (Micro-30), IEEE, pages 259-269 (December 1-3, 1997) | | | |
| | Anton Chernoff, et al., FX!32, A Profile-Directed Binary Translator, IEEE Micro, Vol. 18 No. 2 pp. 56-64 (March/April, 1998) | | | |
| | Compaq Computer Corp., Compiler Writer's Guide for the Alpha 21264 (1999) www.alphalinux.org/archives/axp-list/June1999/0475.html | | | |
| | T.M. Conte, et al., "Accurate and practical profile-driven compilation using the profile buffer," Proceedings of the 29 th Annual International Symposium on Microarchitecture, Paris, France, pp. 36-45 (Dec. 1996) | | | |
| | T.M. Conte, et al., "Hardware based profiling: An effective technique for profile-driven optimization," International Journal of Parallel Programming, vol. 24, no. 2 (Feb. 1996) | | | |
| | T.M. Conte, et al., "Using branch handling hardware to support profile-driven optimization," Proceedings of the 27 th Annual International Symposium on Microarchitecture San Jose, CA (Dec. 1994) | | | |
| | J.S. Cox et al., "Commercializing profile-driven optimization." Proceedings of the 28 th Hawaii International Conference on System Sciences, vol. 1 Maui, HI, pp. 221-228 (Jan. 1995) | | | |
| | Dean, ProfileMe: Hardware Support for Instruction-Level Profiling on Out-of-Order Processors," IEEE 1997, pp. 292-302 | | | |
| | Digital Equipment Corp., White Paper: How DIGITAL FX!32 Works (September 1997) http://www.digital.com/semiconductor/amt/fx32/fx-white.htm | | | |
| | Ebcioglu and Altman, IBM Research Report, DAISY: Dynamic Compilation for 100% Architectural Compatibility, IBM Research Division (1996) | | | |
| | Linda Geppert et al., Transmeta's Magic Show, IEEE Spectrum, vol. 37 no. 5, pp. 26-33 (May 2000) | | | |
| | Ronald M. Guffin, Microdiagnostics for the Standard Computer MLP-900 Processor, IEEE Transactions on Computers, Vol. C-20 No. 7, pp. 803-808 (July 1971) | | | |
| | Linley Gwennap, MDR Technical Library Special Report, Intel's Merced and IA-64 Technology and Market Forecast, IA-64 Software Model - Chapter 3 excerpt Microprocessor Report, MicroDesign Resources (July 20, 1998) | | | |
| | Linley Gwennap, MDR Technical Library Special Report, Intel's Merced and IA-64: Technology and Market Forecast, Executive Summary, Microprocessor Report, MicroDesign Resources (July 20, 1998) | | | |
| | Linley Gwennap, First Merced Patent Surfaces, Intel Document Reveals Processors With Dual Instruction Sets, Microprocessor Report, MicroDesign Resources (July 20, 1998) | | | |
| | R.E. Hank, et al., "Region-Based Compilation: An Introduction and Motivation" Proceedings of the 28th Annual International Symposium on Microarchitecture, pp. 158-168 (Dec. 1995) | | | |
| | Reiner W. Hartenstein, Jürgen Becker: Performance Analysis in CoDe-X Partitioning for Structural Programmable Accelerators; Proc. of 5th Int'l Workshop on Hardware/Software Co-Design CODES/CASHE '97, Braunschweig, Germany, p. 141 (March 1997) | | | |
| EXAMINER | | DATE CONSIDERED | | |

| | | | | | | |
|--|--|--|--|------------------------------------|--------------------------|--|
| FORM PTO-1449 | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 114596-07-4014 | SERIAL NO. 09/330,852 | RECEIVED AUG 27 2004 Technology Center 2100 |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | APPLICANT David L. Reese, et al. | | FILING DATE June 11, 1999 | | |
| | | GROUP ART UNIT 2124 | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.) | | | | | | |
| | | | Raymond J. Hookway, et al., Combining Emulation and Binary Translation (August 28, 1997) http://www.digital.com/info/DTJP01HM.HTM | | | |
| | | | Intel Corporation, Intel Architecture Software Developer's Manual, <i>passim</i> (1997) | | | |
| | | | Intel Corporation, Intel Processor Family Developer's Manual (1997), pages 1-1 to 1-6, 2-1 to 2-20 | | | |
| | | | Intel Corporation, Intel Processor Family Developer's Manual (1997), vol. 3 (Architecture and Programming Manual), pages 3-1 to 3-3, 3-10 to 3-13, 12-1 to 12-27, 14-1 to 14-30 | | | |
| | | | Kavi et al., A Performability Model for Soft Real-Time Systems, IEEE Proceedings of the 27th Annual Hawaii International Conference on System Sciences, pp. 571-579 (1994) | | | |
| | | | Kim and Tyson: Analyzing the Working Set Characteristics of Branch Execution, Proceedings of the 31st Annual ACM/IEEE International Symposium on Microarchitecture, pp. 49-58 (Dec. 1998) | | | |
| | | | Monica S. Lam, Robert P. Wilson, Limits of Control Flow on Parallelism, Proceedings of the 19th Annual International Symposium on Computer Architecture, p.46-57 (May 1992) | | | |
| | | | Larus and Schnarr: EEL: Machine-Independent Executable Editing, EEL: Machine-independent executable editing. In Proceedings of the ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI), 1995 | | | |
| | | | Harold W. Lawson, Jr., et al., Functional Characteristics of a Multilingual Processor, IEEE Transactions on Computers, Vol. C-20, No. 7, pp. 732-742 (July, 1971) | | | |
| | | | M. Lipasti and J. Shen. Exceeding the Data-Flow Limit Via Value Prediction, 29th International Symposium on Microarchitecture, pages 226-237, IEEE (Dec. 1996) | | | |
| | | | K.N.P. Menezes, "Hardware-based profiling for program optimization," Ph.D. thesis, Department of Electrical and Computer Engineering, North Carolina State University, Raleigh, North Carolina (1997) | | | |
| | | | Nanodata Corporation, QM-1 Hardware level User's Manual (1975) | | | |
| | | | Nanodata Corporation, QM-2 Processor (1976) | | | |
| | | | Parkinson and Parameswaran, Profiling in the ASP Codesign Environment, Proceedings of the 8th International Symposium on System Synthesis, Cannes, France, p.128-133 (Sept. 1995) | | | |
| | | | Robert F. Rosin, Contemporary Concepts of Microprogramming and Emulation, ACM Computing Surveys, Vol. 1 No. 4, pp. 197-212 (December 1969) | | | |
| | | | Robert F. Rosin, An Environment for Research in Microprogramming and Emulation, Communications of the ACM, Vol. 15 No. 8, pp. 748-760 (August 1972) | | | |
| | | | Standard Computer Corp., IC-9000 Central Processing Unit - Principles of Operation (undated - possibly 1969) | | | |
| EXAMINER | | | DATE CONSIDERED | | | |

ATTY. DOCKET NO.

SERIAL NO.

APPLICANT

David L. Reese, et al.

FILING DATE

June 11, 1999

GROUP ART UNIT

2124

INFORMATION DISCLOSURE CITATION

AUG 23 2004

(Use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

Veen: Dataflow Machine Architecture, ACM Computing Surveys vol. 18 no. 4 pp. 365-96 (December 1986)

W.T. Wilner, Design of the Burroughs B1700, Fall Joint Computer Conference, pp. 489-497 (1972)

W.T. Wilner, Burroughs B1700 Memory Utilization, Fall Joint Computer Conference, pp. 579-586 (1972)

RECEIVED

AUG 27 2004

Technology Center 2100

EXAMINER

DATE CONSIDERED